

## ABSTRACT

The invention provides for methods and compositions for identifying proteins or chemicals that directly or indirectly modulate a genomic polynucleotide and methods for identifying active genomic polynucleotides. Generally, the method comprises inserting an adeno-associated virus derived expression construct having a reporter gene into an eukaryotic genome, usually non-yeast, contained in at least one living cell, contacting the cell with a predetermined concentration of a modulator, and detecting reporter gene expression in the cell.

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